

301. (twice amended) A method of preventing or reducing fogging of a surface of a composite when subjected to humid conditions, comprising:

providing a composite with a surface, said composite comprising a substrate and a photocatalytic surface layer, said photocatalytic surface layer comprising a photocatalyst;

subjecting the photocatalyst to photoexcitation to render the surface of the composite hydrophilic, wherein, after said photoexcitation, the surface of the composite has a water wettability of less than 10° in terms of the contact angle with water; and

subjecting the composite to humidity that is sufficient to induce fogging of said substrate if said photocatalytic surface layer were absent.

312. (twice amended) A method for maintaining a surface of a composite in a clean state when subjected to deposits and contaminants in air and environmental precipitation, comprising:

providing a composite with a surface, said composite comprising a substrate and a photocatalytic surface layer, said photocatalytic surface layer comprising a photocatalyst ;

subjecting the photocatalyst to photoexcitation to render the surface of the composite hydrophilic, wherein, after said photoexcitation, the surface of the composite has a water wettability of less than about 20° in terms of the contact angle with water;

subjecting said composite to deposits or contaminants; and

washing away the deposits or contaminants on the surface of the composite by occasional contact with water.